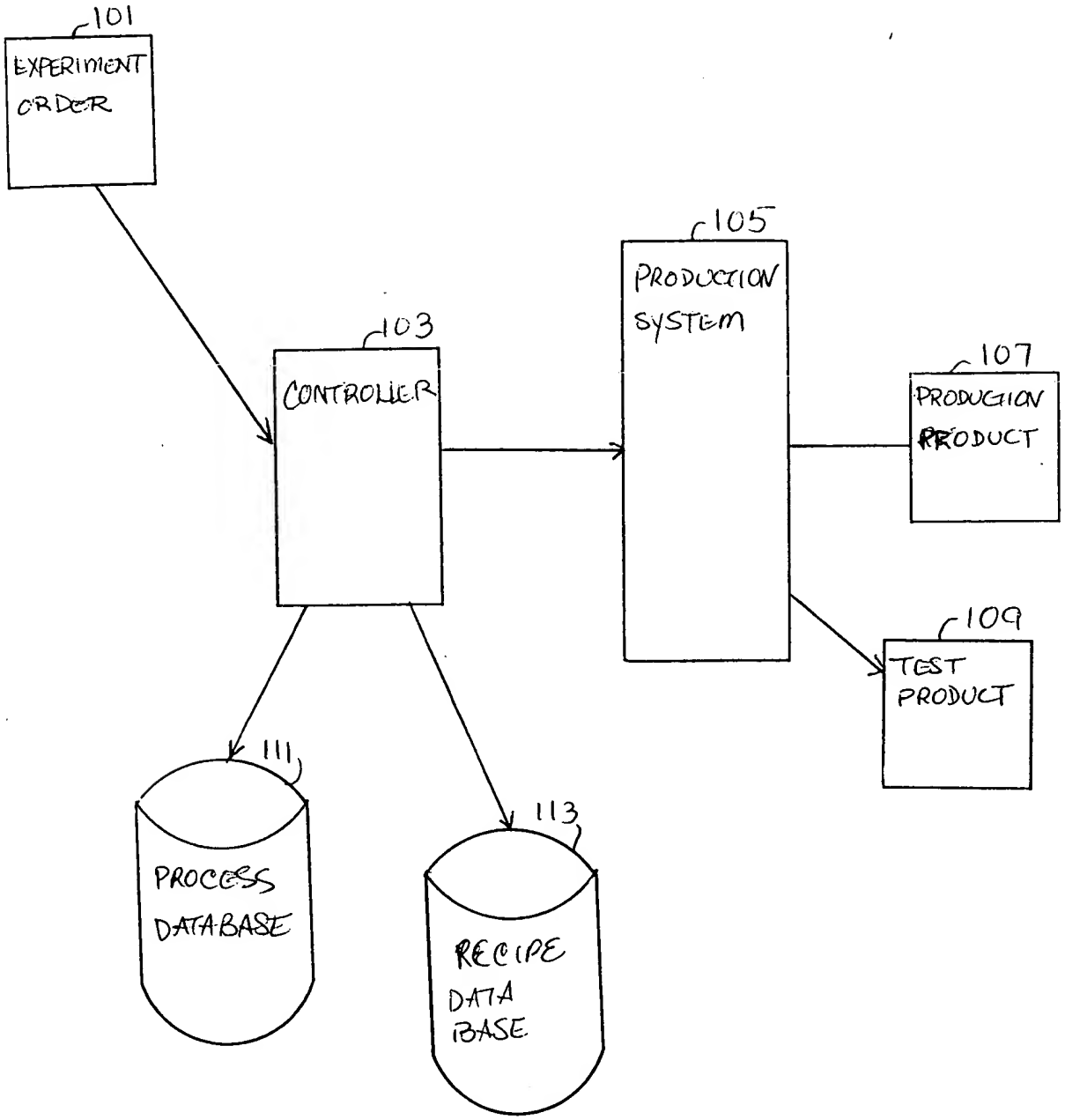
101
EXPERIMENT ORDER
103
CONTROLLER
105
PRODUCTION SYSTEM
107
PRODUCTION PRODUCT
109
TEST PRODUCT
111
PROCESS DATABASE
113
RECIPE DATA BASE

FIG. 1

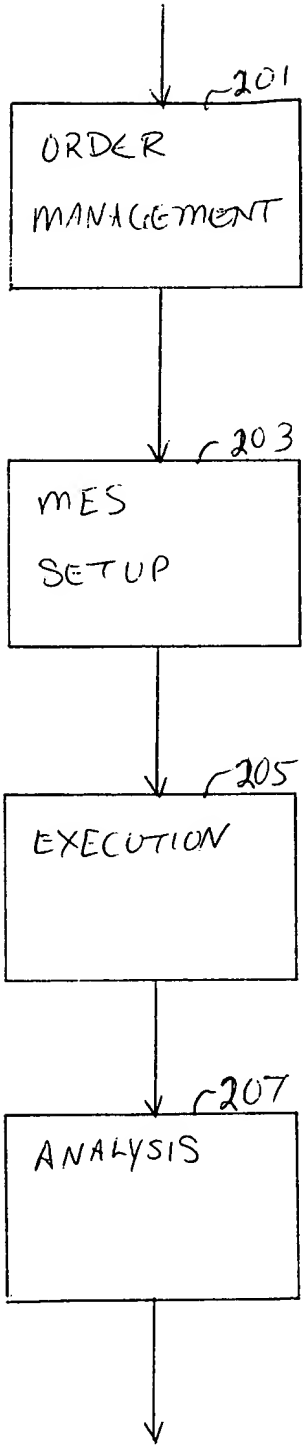
201
ORDER MANAGEMENT
203
MES SETUP
205
EXECUTION
207
ANALYSIS

FIG. 2

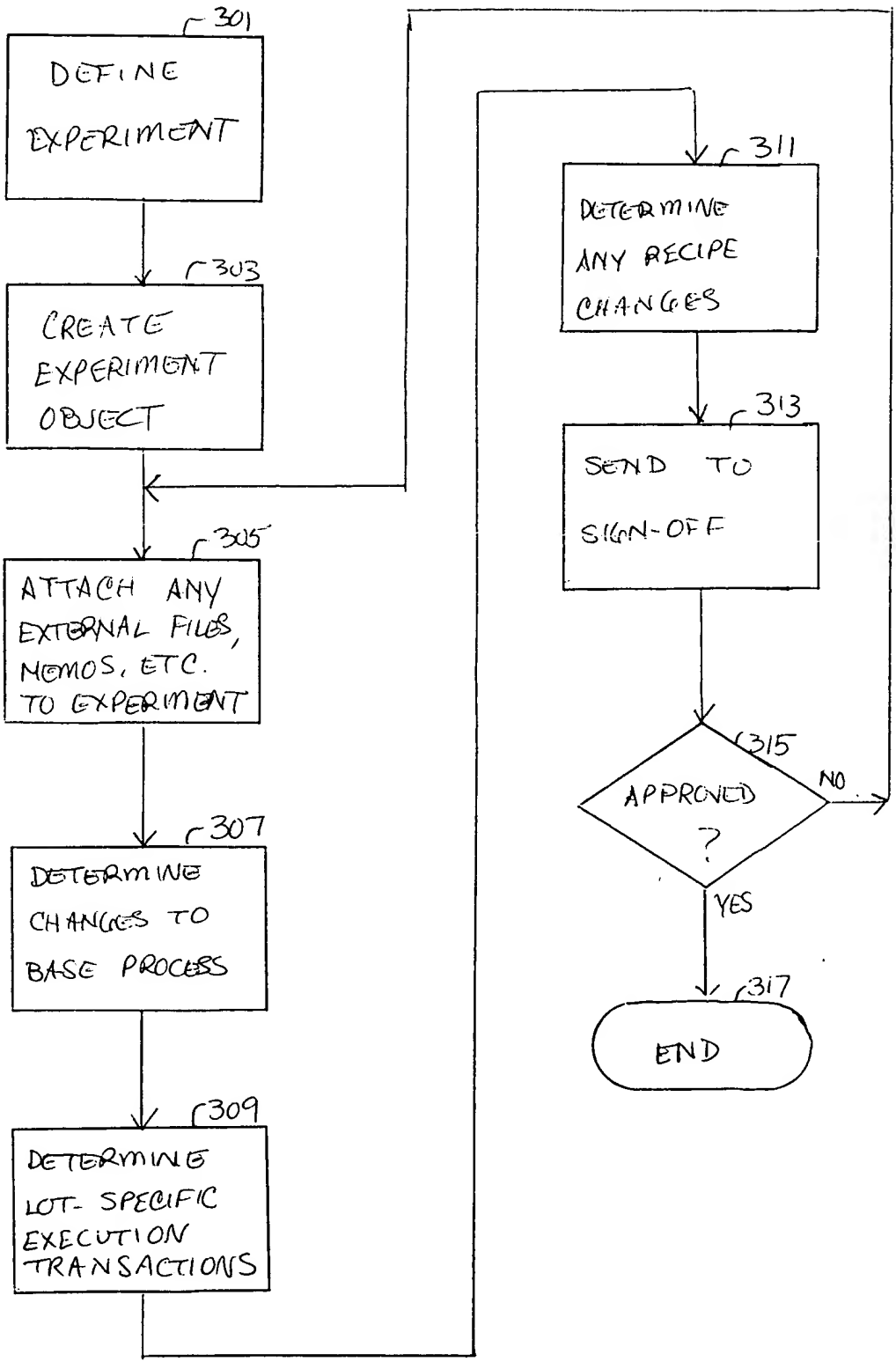
301
DEFINE EXPERIMENT
303
CREATE EXPERIMENT OBJECT
305
ATTACH ANY EXTERNAL FILES, MEMOS, ETC. TO EXPERIMENT
307
DETERMINE CHANGES TO BASE PROCESS
309
DETERMINE LOT-SPECIFIC EXECUTION TRANSACTIONS
311
DETERMINE ANY RECIPE CHANGES
313
SEND TO SIGN-OFF
315
APPROVED ?
NO
YES
317
END

FIG. 3A

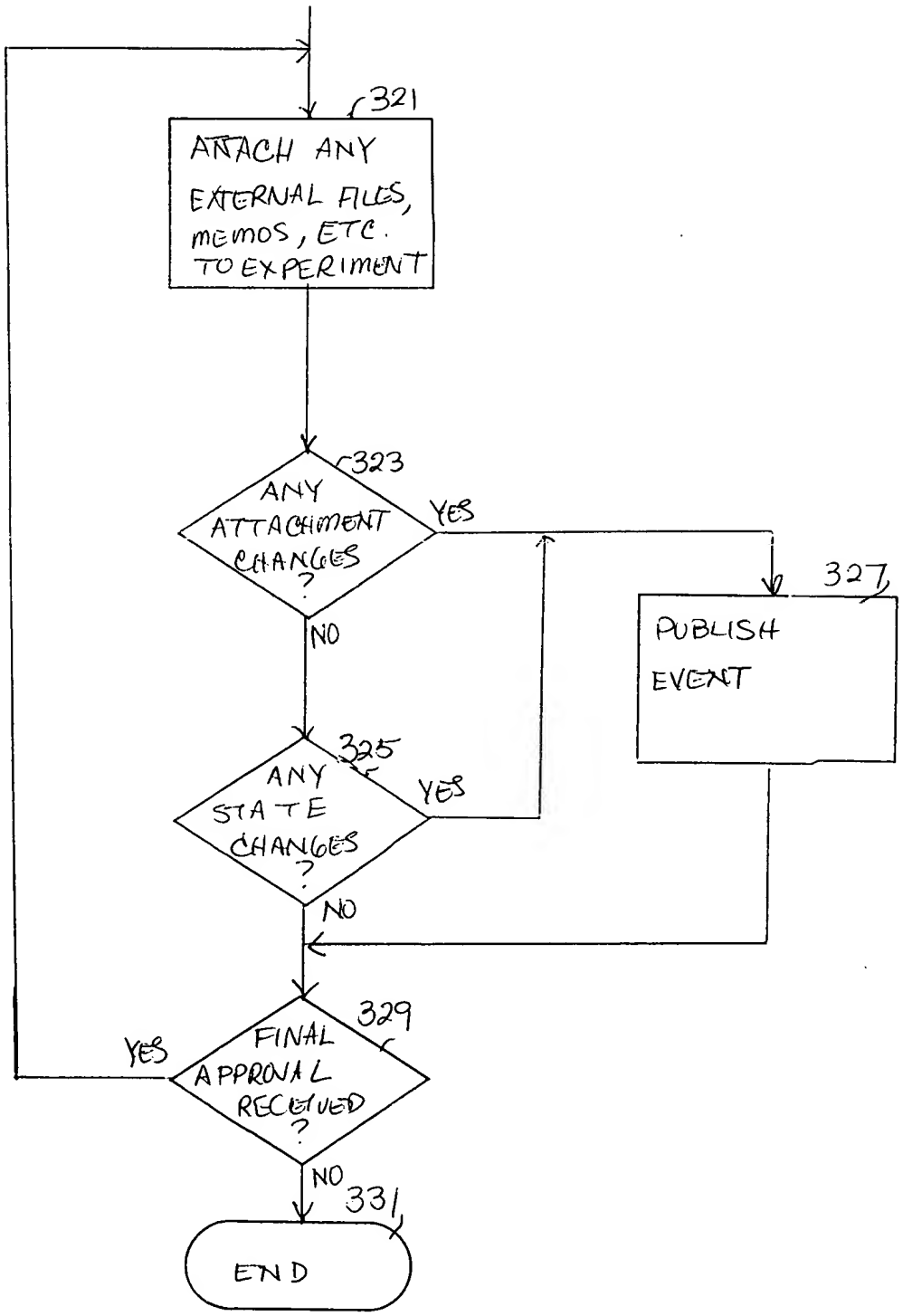
321
ATTACH ANY EXTERNAL FILES, MEMOS, ETC. TO EXPERIMENT
323
ANY ATTACHMENT CHANGES ?
YES
NO
327
PUBLISH EVENT
325
ANY STATE CHANGES ?
YES
NO
329
FINAL APPROVAL RECEIVED ?
YES
NO
331
END

FIG. 3B

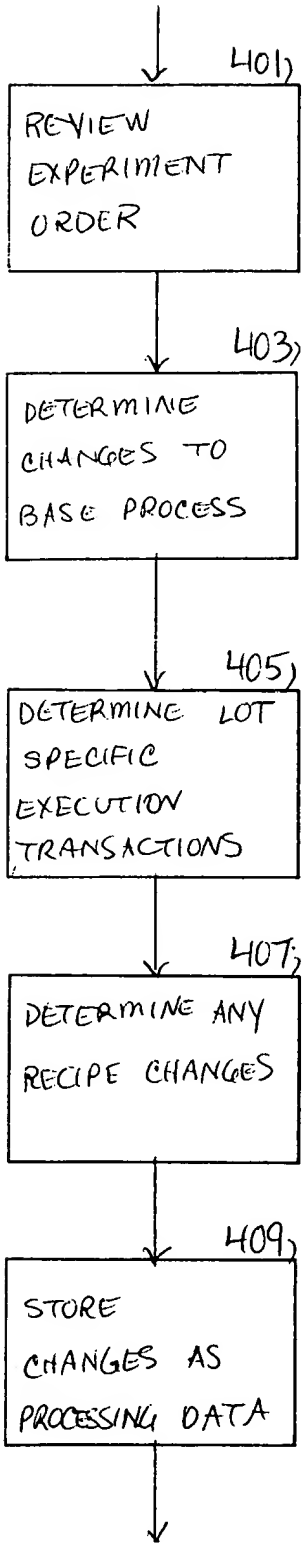
401
REVIEW EXPERIMENT ORDER
403
DETERMINE CHANGES TO BASE PROCESS
405
DETERMINE LOT SPECIFIC EXECUTION TRANSACTIONS
407
DETERMINE ANY RECIPE CHANGES
409
STORE CHANGES AS PROCESSING DATA

FIG. 4

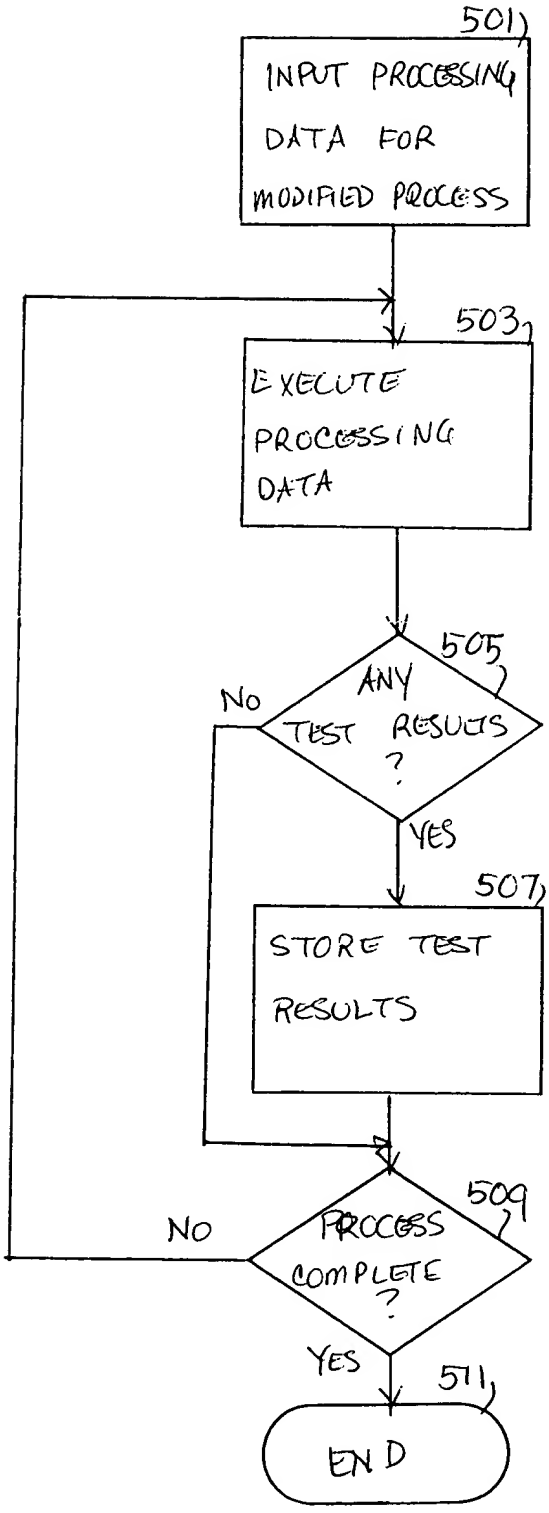
501
INPUT PROCESSING DATA FOR MODIFIED PROCESS
503
EXECUTE PROCESSING DATA
505
ANY TEST RESULTS ?
No
YES
507
STORE TEST RESULTS
509
PROCESS COMPLETE ?
NO
YES
511
END

FIG. 5

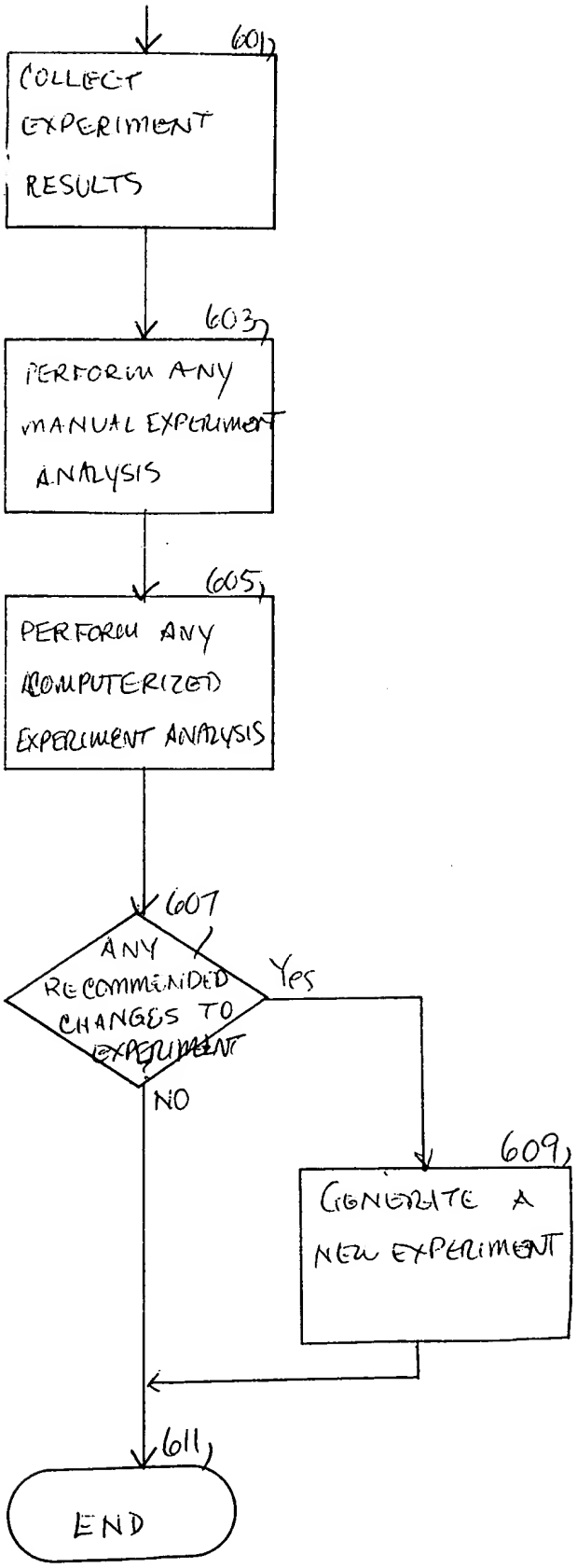
601
COLLECT EXPERIMENT RESULTS
603
PERFORM ANY MANUAL EXPERIMENT ANALYSIS
605
PERFORM ANY COMPUTERIZED EXPERIMENT ANALYSIS
607
ANY RECOMMENDED CHANGES TO EXPERIMENT
Yes
NO
609
GENERATE A NEW EXPERIMENT
611
END

FIG. 6

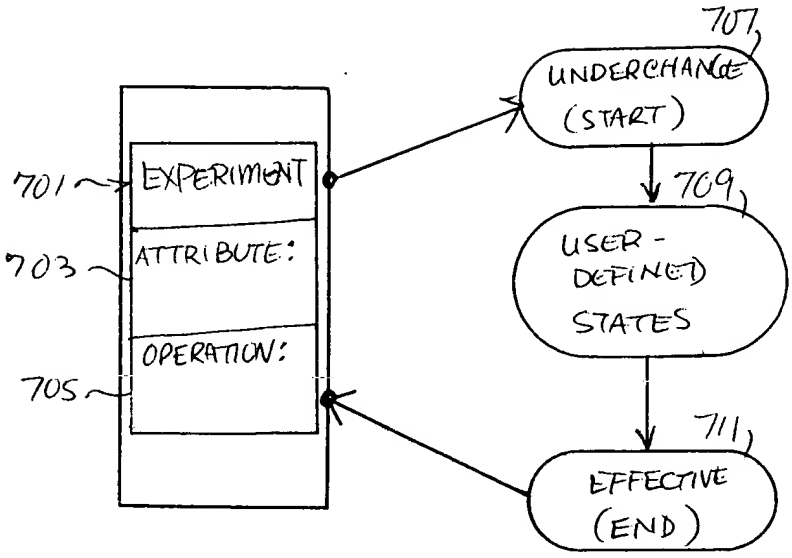
707
UNDERCHANGE
(START)
701
EXPERIMENT
703
ATTRIBUTE:
705
OPERATION:
709
USER-
DEFINED
STATES
711
EFFECTIVE
(END)

FIG. 7

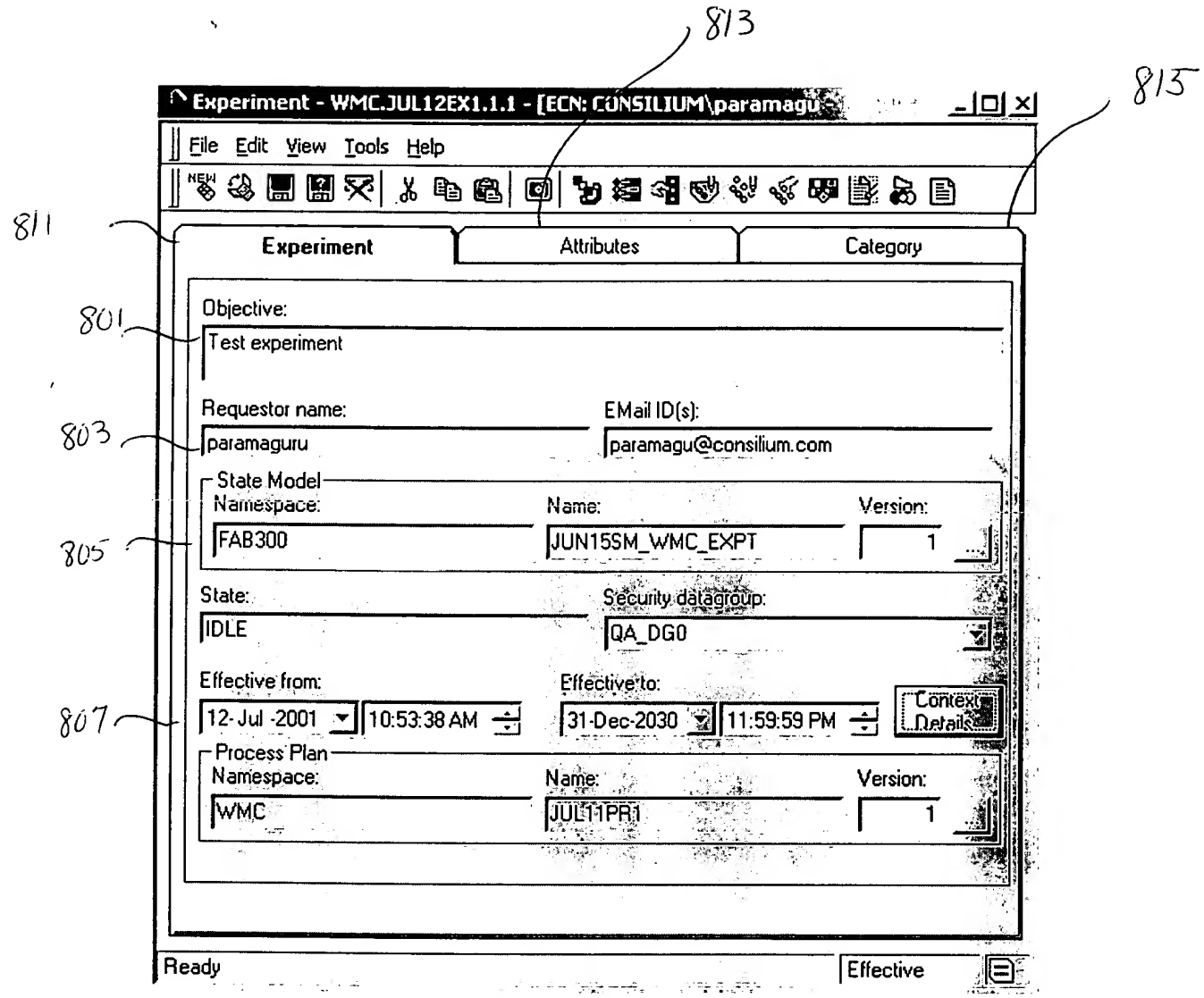
813
815
811
801
803
805
807
Experiment - WMC.JUL12EX1.1.1 - [ECN: CONSILIUM\paramagu
File Edit View Tools Help
Experiment
Attributes
Category
Objective:
Test experiment
Requestor name:
paramaguru
EMail ID(s):
paramagu@consilium.com
State Model
Namespace:
Name:
Version:
FAB300
JUN15SM_WMC_EXPT
1
State:
IDLE
Security datagroup:
QA_DG0
Effective from:
12-Jul-2001
10:53:38 AM
Effective to:
31-Dec-2030
11:59:59 PM
Context Details
Process Plan
Namespace:
Name:
Version:
WMC
JUL11PR1
1
Ready
Effective

FIG. 8

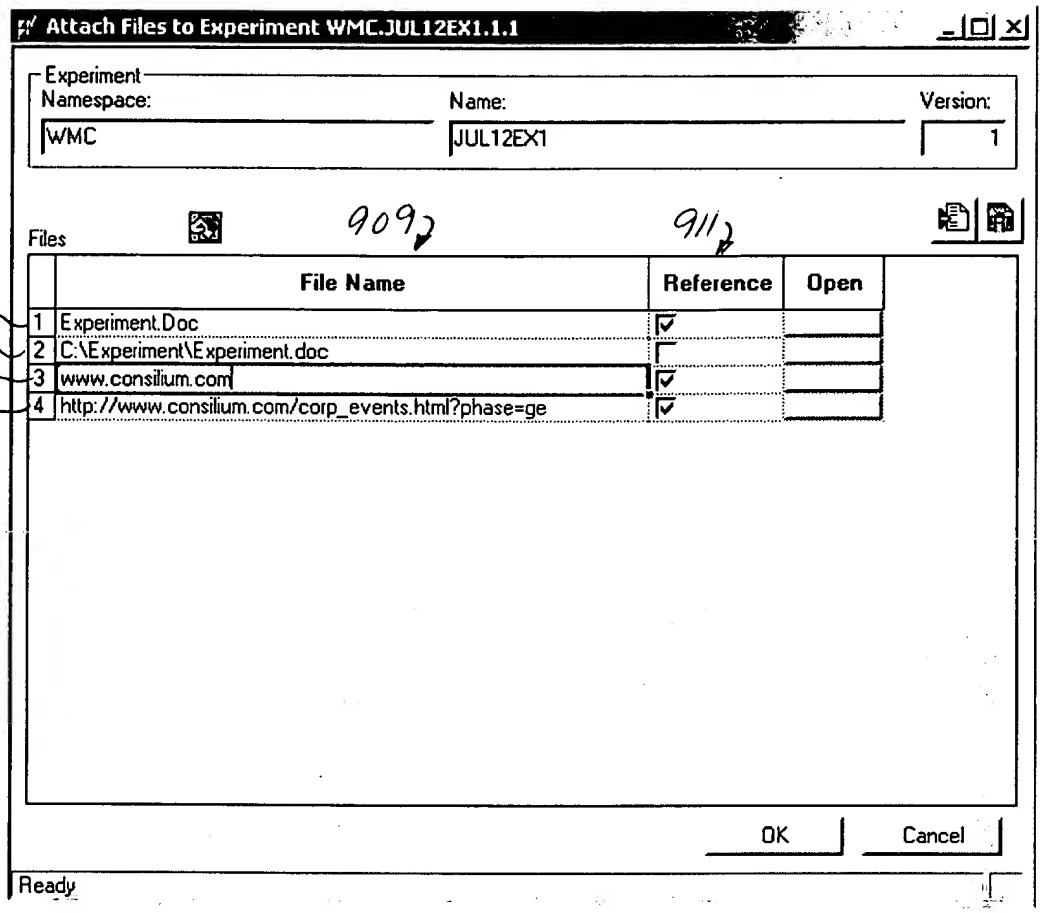
Attach Files to Experiment WMC.JUL12EX1.1.1
Experiment
Namespace:
WMC
Name:
JUL12EX1
Version:
1
Files
909
911
File Name
Reference
Open
1 Experiment.Doc
2 C:\Experiment\Experiment.doc
3 www.consilium.com
4 http://www.consilium.com/corp_events.html?phase=ge
901
903
905
907
OK
Cancel
Ready

FIG. 9

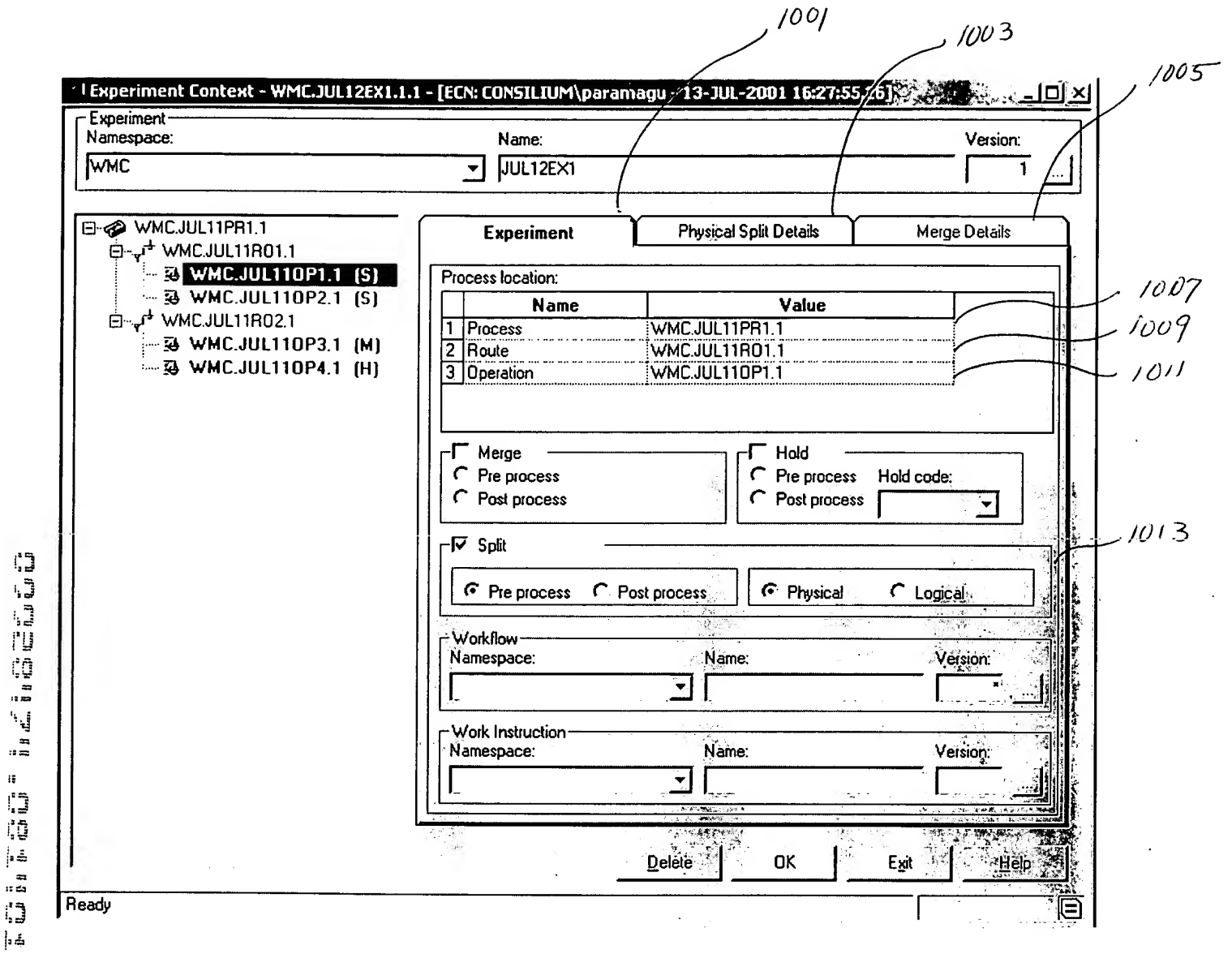
1001
1003
1005
Experiment Context - WMC.JUL12EX1.1.1 - [ECN: CONSILIUM\paramagu - 13-JUL-2001 16:27:55.6]
Experiment
Namespace:
WMC
Name:
JUL12EX1
Version:
1
WMC.JUL11PR1.1
WMC.JUL11R01.1
WMC.JUL11OP1.1 (S)
WMC.JUL11OP2.1 (S)
WMC.JUL11R02.1
WMC.JUL11OP3.1 (M)
WMC.JUL11OP4.1 (H)
Experiment
Physical Split Details
Merge Details
Process location:
Name
Value
1 Process
WMC.JUL11PR1.1
2 Route
WMC.JUL11R01.1
3 Operation
WMC.JUL11OP1.1
1007
1009
1011
Merge
Pre process
Post process
Hold
Pre process
Post process
Hold code:
Split
1013
Pre process
Post process
Physical
Logical
Workflow
Namespace:
Name:
Version:
Work Instruction
Namespace:
Name:
Version:
Delete
OK
Exit
Help
Ready

FIG. 10

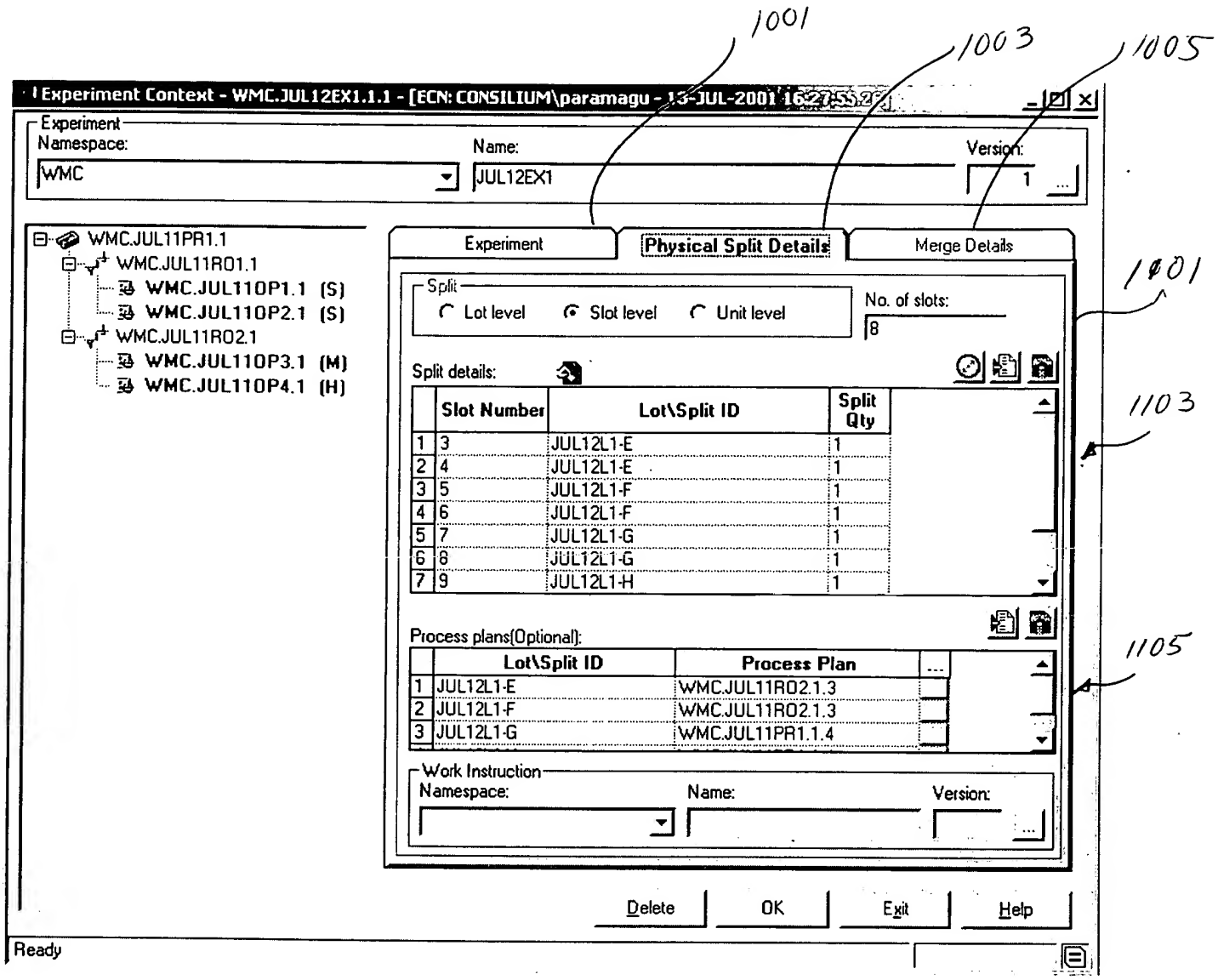
1001
1003
1005
Experiment Context - WMC.JUL12EX1.1.1 - [ECN: CONSILIUM\paramagu - 13-JUL-2001 16:27:55.2
Experiment
Namespace:
WMC
Name:
JUL12EX1
Version:
1
WMC.JUL11PR1.1
WMC.JUL11RO1.1
WMC.JUL11OP1.1 (S)
WMC.JUL11OP2.1 (S)
WMC.JUL11RO2.1
WMC.JUL11OP3.1 (M)
WMC.JUL11OP4.1 (H)
Experiment
Physical Split Details
Merge Details
1101
Split
Lot level
Slot level
Unit level
No. of slots:
8
Split details:
1103
Slot Number
Lot\Split ID
Split Qty
1 3 JUL12L1-E 1
2 4 JUL12L1-E 1
3 5 JUL12L1-F 1
4 6 JUL12L1-F 1
5 7 JUL12L1-G 1
6 8 JUL12L1-G 1
7 9 JUL12L1-H 1
Process plans(Optional):
1105
Lot\Split ID
Process Plan
1 JUL12L1-E WMC.JUL11RO2.1.3
2 JUL12L1-F WMC.JUL11RO2.1.3
3 JUL12L1-G WMC.JUL11PR1.1.4
Work Instruction
Namespace:
Name:
Version:
Delete
OK
Exit
Help
Ready

FIG. 11

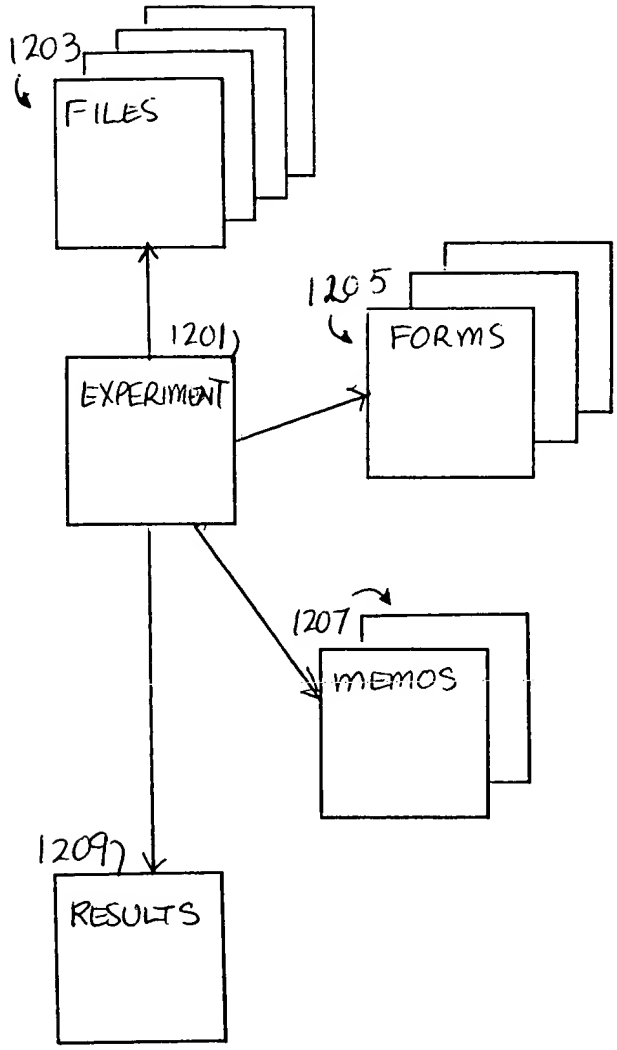
1203
FILES
1205
FORMS
1201
EXPERIMENT
1207
MEMOS
1209
RESULTS

FIG. 12